Datasheet for ABIN968365

anti-MAP3K3 antibody (AA 27-135)

2 Images | 2 Publications

Go to Product page

Overview

Quantity:	50 µg
Target:	MAP3K3
Binding Specificity:	AA 27-135
Reactivity:	Human, Mouse, Rat, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MAP3K3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Human MEKK3 aa. 27-135
Clone:	40-MEKK3
Isotype:	IgG1
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Dog (Canine)
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results. 2. Source of all serum proteins is from USDA inspected abattoirs located in the United States. 3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing. 4. Please refer to us for technical protocols.
Purification:	The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity

Product Details

	chromatography.

Target Details

Target:	MAP3K3
Alternative Name:	MEKK3 (MAP3K3 Products)
Background:	The Ras signaling pathway links signals from growth factor receptors to activation of the MEK/ERK kinases. This cascade of phosphorylation leads to cell growth and differentiation. External stimuli such as endotoxins, UV irradiation, heat, and hyperosmolarity, induce an array of cellular responses that culminate with gene expression. These processes are controlled by the MKK3/p38MAP kinase cascade. A third pathway responsive to environmental stress, cell death, or apoptosis is regulated by SEK/SAPKs. When overexpresssed, MEKK3 is a kinase that is capable of activating both the ERK and SAPK cascades. MEKK3 is 626 amino acids long and is ubiquitously expressed. It is positioned upstream of SEK and MEK in the signaling pathways and directly phosphorylates these enzymes. Overexpression of MEKK3 results in the activation of NFkappaB. Thus, MEKK3 represents an emerging family of kinases that is capable of inducing more than one signaling pathway. This indicates that specificity in the signaling cascades is probably achieved by effector kinases such as the ERKs and SAPKs.
Molecular Weight:	71 kDa
Pathways:	MAPK Signaling

Application Details

Comment:	Related Products: ABIN967389, ABIN968535
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	250 µg/mL
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.

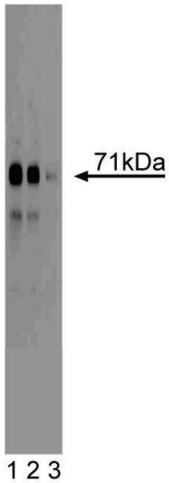
Publications

Product cited in:

Yang, Lai, Lai, Hsu, Kuo, Yu, Lin, Yang, Kuo, Wu, Chung: "Phenethyl isothiocyanate inhibits migration and invasion of human gastric cancer AGS cells through suppressing MAPK and NF-kappaB signal pathways." in: **Anticancer research**, Vol. 30, Issue 6, pp. 2135-43, (2010) (PubMed).

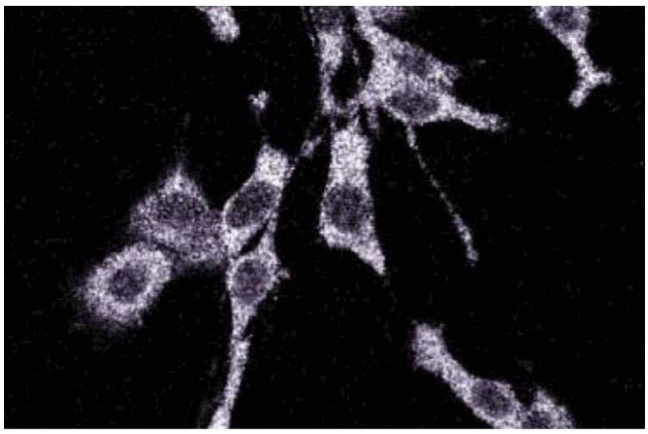
Ellinger-Ziegelbauer, Brown, Kelly, Siebenlist et al.: "Direct activation of the stress-activated protein kinase (SAPK) and extracellular signal-regulated protein kinase (ERK) pathways by an inducible mitogen-activated protein Kinase/ERK kinase kinase 3 ..." in: **The Journal of biological chemistry**, Vol. 272, Issue 5, pp. 2668-74, (1997) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of MEKK3 on a HeLa cell lysate (Human cervical epitheloid carcinoma, ATCC CCL-2). Lane 1: 1:500, lane 2: 1:1000, lane 3: 1:2000 dilution of the mouse anti-MEKK3 antibody.



Immunofluorescence

Image 2. Immunofluorescence staining of RSV-3T3 cells.

